

Payload 1 Daily Flight Report



Date: 2023-04-07

Flight Campaign ID: P1C1

Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO

Aircraft: N331AR

Domain: 00 (Training & Calibration) **Sites Flown**: O10C (NIS Offset - Galaxy)

Days left in Domain: 6

Report Author: Mike

Lidar Operators: Mike **Flight Hours**: 00:27, 00:23, 00:21, 00:19 = 01:30

Spectrometer Operators: Mitch **Hours until maintenance**: 95.85 **Pilots**: Justin, Will **GPS Instruments**: AOP_KBDU

Ground Crew: Abe

Summary

The nice weather continued today in Boulder. The NIS Offset was completed in green conditions. Pending data QA, this completes preseason calibration flights for Payload 1.

Concerns

None

Comments

- -A mercury lamp collection was completed today.
- -Mike was signed off on the Galaxy.

Daily Coverage

Estimated Cloud Cover Kev

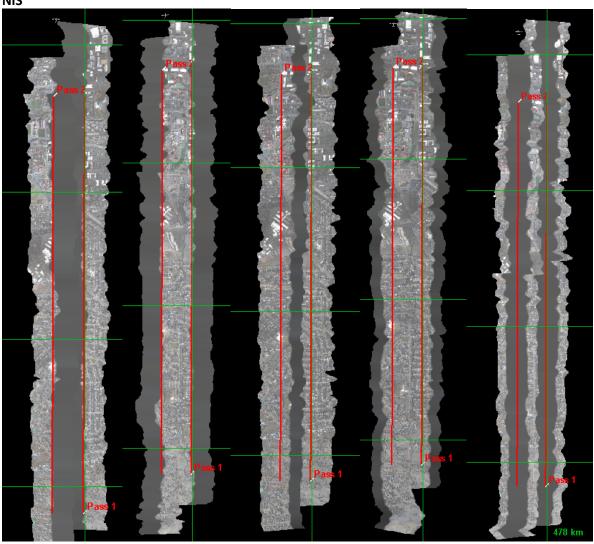
Green:	Yellow:	Red:											
0-10%	11-50%	>50%											

D00|010C

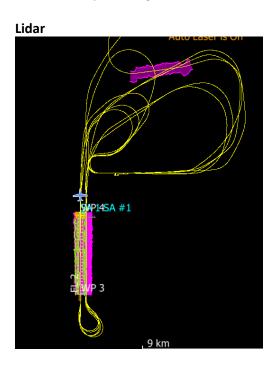
Line #	1	2	1	2	1	2	1	2	1	2
Lidar	/	\	\	\	\	/	/	\	\	<
Spectrometer	✓	✓	✓	✓	✓	√	√	✓	✓	✓
Camera	✓	✓	✓	✓	✓	√	✓	✓	✓	✓
Cloud Cover										

Total number of lines flown: 10

Flight Screenshots NIS



Various Ultrapol configurations affixed to the Spectrometer seen through the Mars-Rover waterfall.



Cumulative Domain Coverage

D00 | B10F (Complete Greeley Boresight Geocalibration - 1500m, 1000m, 550m - Galaxy)

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4	1	1	4	L		7	0	0	10	4.4	40	40	4.4	٦ ـ	1.0	47	1	10	20			
T	2	3	4	5	ь	/	8	9	10	TT	12	13	14	15	ТР	1/	18	19	20			

Flown: 100% (20/20) Green: 0% (0/20) Yellow: 75% (15/20) Red: 25% (5/20)

D00 | H10D (NEON Headquarters Lidar Validation - Galaxy)

1 2 3 4

Flown: 100% (4/4) Green: 0% (0/4) Yellow: 0% (0/4) Red: 100% (4/4)

D00 | N10F (Nominal Runway at KBDU - Galaxy)

		1							-11										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37			

Flown: 100% (37/37) Green: 14% (5/37) Yellow: 86% (32/37) Red: 0% (0/37)

D00 | O10C (NIS Offset - Galaxy)

1 2

Flown: 100% (2/2) Green: 100% (2/2) Yellow: 0% (0/2) Red: 0% (0/2)

D00 | R10E (Table Mountain Radiometric Calibration - Galaxy)

1 2 3 4 5

Flown: 0% (0/5) Green: 0% (0/5) Yellow: 0% (0/5) Red: 0% (0/5)

D00 R10F (Boulder Airport Radiometric Calibration - Galaxy)

1 2 3 4 5

Flown: 100% (5/5) Green: 100% (5/5) Yellow: 0% (0/5) Red: 0% (0/5)

D00 | V10F ()

	_																		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29											

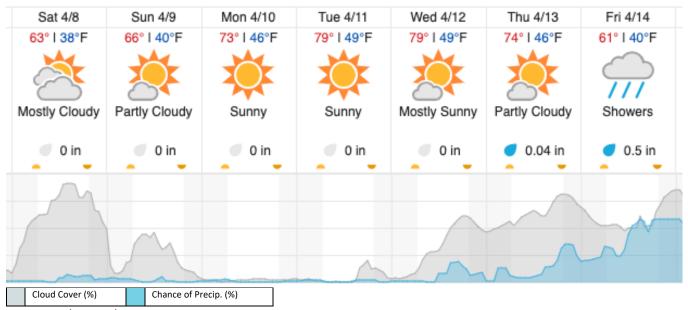
Flown: 14% (4/29) Green: 0% (0/29) Yellow: 14% (4/29) Red: 0% (0/29)

D00 | W10D (Wiggle Timing Test - Galaxy)

1 2

Flown: 100% (2/2) Green: 0% (0/2) Yellow: 0% (0/2) Red: 100% (2/2)

Weather Forecast Boulder, CO



source: wunderground.com

Flight Collection Plan for April 8, 2023

Recertification Flight (John)

Crew: John (Lidar), Mike (NIS), Mitch/Abe/Matt (Ground)